

INTERNATIONAL SEARCH REPORT

International application No.

PCT 03/00056

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl.⁷ H01F37/00, F24F5/00, F24F11/02, H03H7/09

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl.⁷ H01F37/00, F24F5/00, F24F11/02, H03H7/09

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

| | | | |
|---------------------------|-----------|----------------------------|-----------|
| Jitsuyo Shinan Koho | 1922-1996 | Toroku Jitsuyo Shinan Koho | 1994-2003 |
| Kokai Jitsuyo Shinan Koho | 1971-2003 | Jitsuyo Shinan Toroku Koho | 1996-2003 |

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| Y | JP 07-243691 A (Hitachi, Ltd.), 19 September, 1995 (19.09.95), Claims; Par. Nos. [0062] to [0067], [0071] to [0072]; Figs. 14, 16 (Family: none) | 1-10 |
| Y | Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 43815/1985 (Laid-open No. 162737/1986) (Toshiba Corp.), 08 October, 1986 (08.10.86), Claims; Fig. 1 (Family: none) | 1-10 |

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:
 "A" document defining the general state of the art which is not
 considered to be of particular relevance
 "E" earlier document but published on or after the international filing
 date
 "L" document which may throw doubts on priority claim(s) or which is
 cited to establish the publication date of another citation or other
 special reason (as specified)
 "O" document referring to an oral disclosure, use, exhibition or other
 means
 "P" document published prior to the international filing date but later
 than the priority date claimed

"T" later document published after the international filing date or
 priority date and not in conflict with the application but cited to
 understand the principle or theory underlying the invention
 "X" document of particular relevance; the claimed invention cannot be
 considered novel or cannot be considered to involve an inventive
 step when the document is taken alone
 "Y" document of particular relevance; the claimed invention cannot be
 considered to involve an inventive step when the document is
 combined with one or more other such documents, such
 combination being obvious to a person skilled in the art
 "&" document member of the same patent family

Date of the actual completion of the international search
09 April, 2003 (09.04.03)Date of mailing of the international search report
22 April, 2003 (22.04.03)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/JP03/00056

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| Y | JP 60-74412 A (Toshiba Corp.), 26 April, 1985 (26.04.85), Claims; page 3, upper right column, line 17 to lower left column, line 8 & DE 3435519 A1 | 1-10 |
| Y | JP 11-329851 A (TDK Corp.), 30 November, 1999 (30.11.99), Claims; Par. Nos. [0010] to [0012] & US 6215386 B1 | 1-10 |
| Y | Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 150606/1978 (Laid-open No. 68328/1980) (Matsushita Electric Works, Ltd.), 10 May, 1980 (10.05.80), Claims; page 7, lines 5 to 14 (Family: none) | 1-10 |